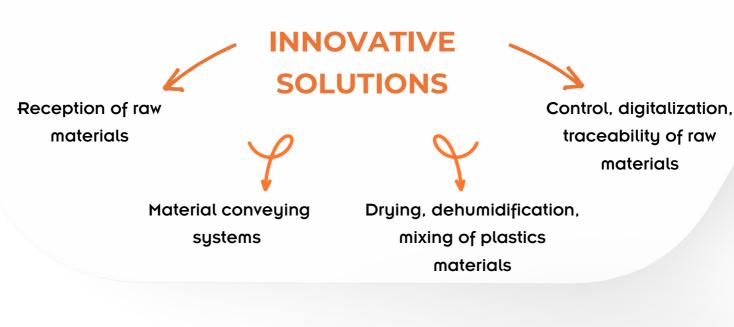


Central conveying systems for the process of plastics materials







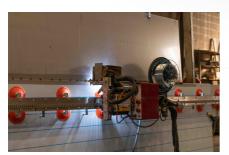






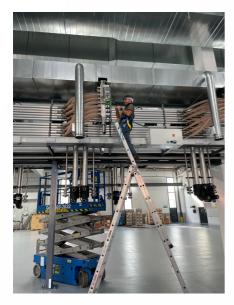


# Alimatization engineering customer service technical assistance maintenance of installations spare parts training











Alimatic is able to provide all of its experience to new installations as well as to enlarge or modify existing central conveying systems.





# **STORAGE AND CONVEYING SYSTEMS**

We offer you adapted and efficient solutions to optimize the reception and storage of plastic materials. The material can be received in bags, Octabin, Cistern trucks or even in RailCar unloading system.





Pull/Push system Capacity: up to 10 ton / hour



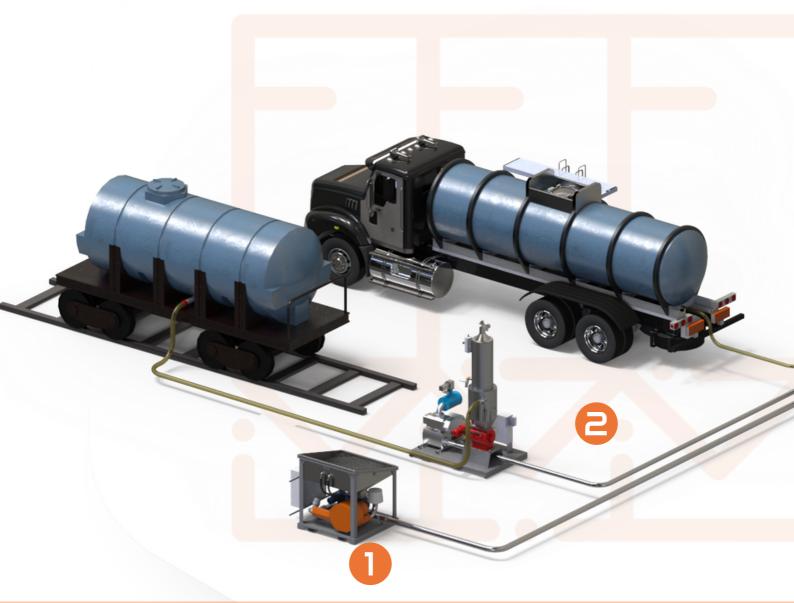
RailCar Unloading systems from RailCar to Silos.



Homogenizing silos



Stainless Steel / Aluminium Silos Capacity: form 30 to 250 m3





# **STORAGE AND CONVEYING SYSTEMS**

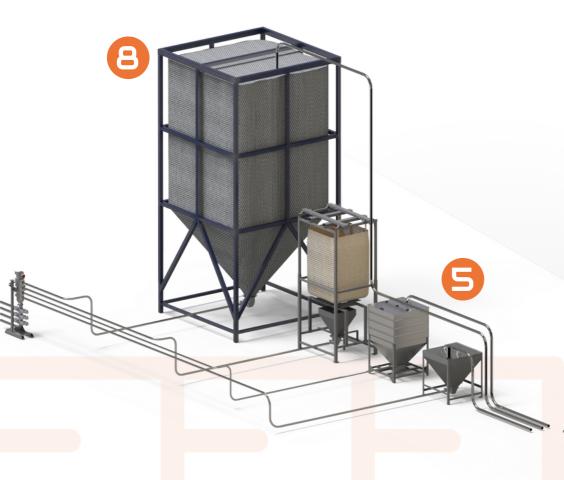






# STORAGE AND CONVEYING SYSTEMS









Silo loading system Capacity: up to 10 ton / hour



Modular hoppers/suge bins Capacity: from 30 to 2.000L



Textil Silos Capacity: up to 50 tons -100 m3

The automated sack emptying LABORSAVE is the most advanced on the market. Capacity: up to 32 tons/h





# **HOPPER LOADERS**

器目

Alimatic has a full range of hopper loaders.

- SINGLE: Single-phase or Three-phase
  - o Individual transport equipment that supplies, quickly and cleanly, different process points as needed
  - o It consists of an individual control with a micro PLC and its electrical protections depending on the regulations
  - o Power of the vacuum group, which allows the equipment to work individually in an automatic way.

## VACUMM RECEIVERS

• Conveying equipment for connection to a vacuum system and a centralized PLC with different capacities from 2 to 300L.

## • POWDER HOPPER LOADER

- Built in stainless steel and with a volume of 30 and 10 liters.
- Automatic filter cleaning, vacuum valve, antistatic non-return filter, level detector.



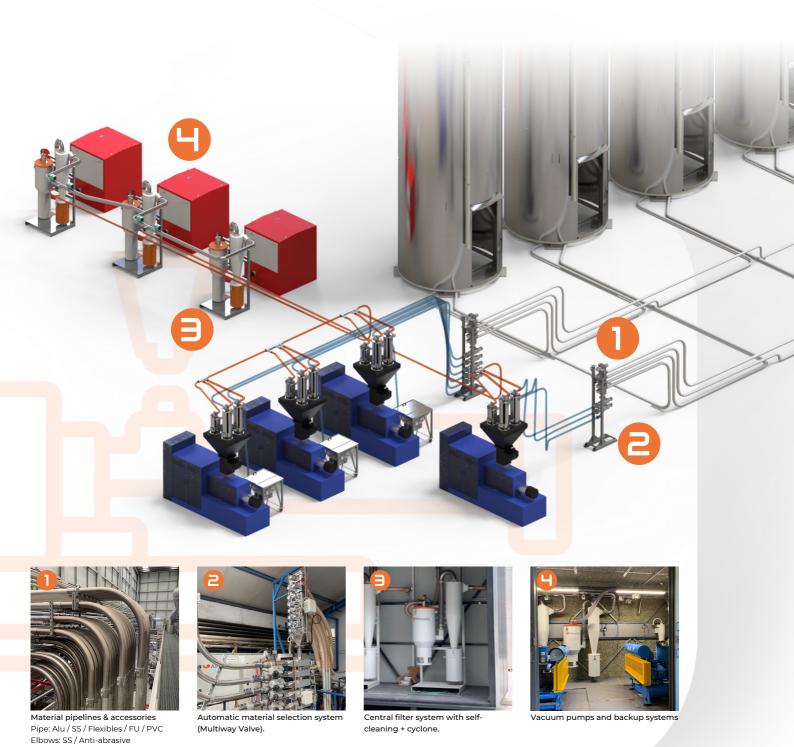


# **CENTRAL CONVEYING SYSTEMS**



## **INJECTION**

Conveying system to supply 4 injection molding machines with materials coming from 4 external silos through 2 automatic material selection system (Multiway valve) and 5 and 2 diverter valves respectively.



www.alimatic.com



# **CENTRAL CONVEYING SYSTEMS**



## **EXTRUSION**

Conveying system for supplying three-layer extrusion machine from 2 lines; main material in silos and minority material in hopper, with automatic selection through 1 automatic selection valve and 1 diverting valve. The vacuum is generated by a vacuum ring composed of 3 pumps and 4 filters (1 in stand by). With the vacuum ring we obtain significant energy savings.



Central material selection valve with purge valve.



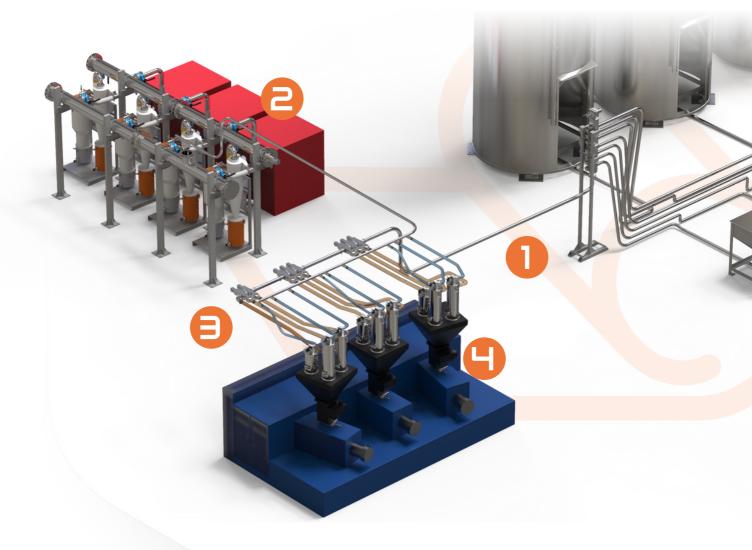
Central vacuum ring (energy saving)



Individual material selection valve (VDL).



Central raw material system and blending components.





# **VACUMM RING**

Central vacuum system, controlled by central power panel and frequency variators, decoupling the central vacuum from the conveying system.

It provides a significant energy saving by giving service to the whole production plant and it avoids stoppages because all the vacuum units are both working and back up.

## **SPECIFICATIONS:**

- Control of the whole system via PLC and touch screen.
- Frequency variators to regulate the stop/start of the groups.
- Graphing and viewing of the system and operating status.
- Instant control of system energy consumption.
- Savings in kw. per kg. of material processed.

## **OPTIONS:**

• Automatic filter cleaning system in semi-automatic mode.





# **CONTROL OF INSTALLATIONS**

Alimatic has its own programs for the control and supervision of the installations, by PLC, PC o Dashboard.

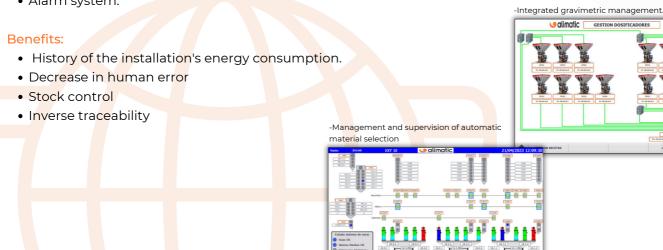
We offer different types of profiles from operators to supervisors.

## **Applications:**

• Control of Industrial Equipments and condition monitoring.

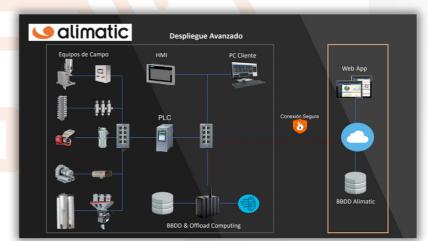
-Batch formulation and dosing

- Traceability of raw material conveying system by batch and by manufacturing order.
- Yield analysis
- Transparency of the supply chain.
- Automatic adjustment of conditions according to the production order launched.
- Alert system
- Visualizations per user and profiles.
- Alarm system.









② EXT 09 EXT 10 EXT 07 EXT 06 EXT 03 EXT 04 EXT 11 ▲



# **DRYERS AND HOT AIR DYERS**

The new technology in dehumidification by rotor ADR of ALIMATIC ensures reduction of 98% of dust vs. traditional drying technology.

ALIMATIC ensures optimal control of drying and the viscosity of the material during the process, achieving a reduction of rejects and improved production.



alimatic

Efficiency

Temperature 60°C to 180°C máx. Constant dew point of -60°C

Economy

40% energy saving | With no desiccant silica-gel | Frequency converter for adjusting the airflow

Development

Without needing water or compressed air Reduction 98% of powder



Dry air dryer

6.000 I

Capacity: from 30 to

fast drying.

consumption and

**ULTRA FAMILY:** 

Vacuum dehumidifying equipment. Low energy

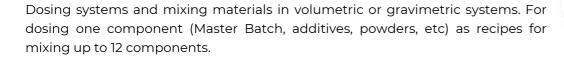
Dehumidifiers
rotary ADR 160
Capacity: from 15 to
800 l.
Touch screen
display with
temperature, dew
point and alarms.



Dehumidifiers rotary ADR 250 to 2500Capacity: from 300 to 5.000



# **DOSING UNITS**





These dosing units can be installed beside the machine or directly above it.

EFFICIENCY

Fast color changes in production lines | Dosing Accuracy +-0,1% in the mix made. Materials can be dose in pellet or powder.

**ECONOMY** 

Faster pay back and savings in dosage

DEVELOPMENT Factory integrated system Industry 4.0





# **GRAVIMETRIC BLENDERS**

The Maguire gravimetric blenders have the ability to mix different types of materials in pellet or recipes like virgin + regrind + color + additive and also can dispense in the recipe, powder or pigment, and if it is necessary, a liquid color or liquid additive in the same recipe.



Once the batch of components is done, it is mixed to provide stability and homogeneity to the process.

**EFFICIENCY** 

More than 50,000 blenders sold worldwide  $\mid$  78 models available from 50 to 3000 kg  $\mid$  h  $\mid$  Dosage of 4 to 12 components  $\mid$  Monitoring and metering all components of the recipe constantly

ECONOMY

Savings in the consumption of MB/ADD & more stability in the set-up of the machine | Quick paybac | Very simple operation less operator time

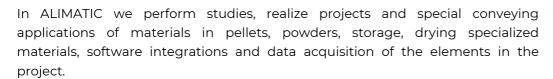
DEVELOPMENT

Administration & Software Control for Industry 4.0 | Automatic re<mark>cal</mark>ibration batch to batch | Integration into central system via PLC for complete data acquisition





# **SPECIAL APPLICATIONS**





**EFFICIENCY** 

Study and adaptation to customer requirements

**ECONOMY** 

Savings in materials handling

Optimal management of stocks Project management DEVELOPMENT Keys in hand systems

## Our partners:









## **AUTOMATIC HANDLING SYSTEMS**



C/ Andorra, 19 B-C 08830 Sant Boi de Llobregat (Barcelona España



ALIMATIC FRANCIA pthomas@alimatic.com



+34 936 525 680



ALIMATIC BRASIL acorradi@alimatic.com.br



alimatic@alimatic.com



ALIMATIC, S.L. DE C.V. - MEXICO rpaz@alimatic.com



@Alimatic\_SL



ALIMATIC, USA alimatic@alimatic.com